

Vedika Instruments Pvt. Ltd

WAR VIPL-FBTLG Float & Board Tank Level Gauge

An economical, easy to install gauge for level indication of liquids in bulk storage tanks under atmospheric condition.

Salient Features

Durable aluminum powder coated gauge board Gaugeboardmarkingsvisiblefromdistance

Options

SS304, SS316, PP or ECTFE coated SS to suit various liquids half travel gauge board for underground tanks Seal pot Adjustable alarm switches (max 4) Volumetric calibration in Liters or KL or BBL

Construction & Operation

Guided : (fig 1) It consists of a float connected to a pointer through a rope via a set of pulleys. The pointer with nylon roller glides smoothly over a calibrated gauge board, positioned parallel to the tank. The float accurately follows liquid level variations in vertical direction. The horizontal float movement is restricted between two guide wires firmly anchored to tank bottom. As such, the pointer is in 'TOP POSITION' when tank is 'EMPTY' and in BOTTOM POSITION' when 'FULL'. The pointer indicates level. The gauge board is supplied in 1 meter sections and multiple gauge boards are connected through gauge board brackets as per ordered measuring range.





Fig.2 Gauge Board with Full Travel

mounted on Side of Elevated Tank

Applications : Liquid with moderate turbulence.

Unguided: In this construction the float movement is not restricted through the guide wire as its movement is negligible. Applications : Liquid with minimumturbulence.

Typical Installation

Fig.1 Gauge Board with Full Travel Mounted on Side of GND Level Tank

Horizontal Limb Process Flange Pulley_ Tensioners Enclosure Conduit Conduit Support **Tensioner Flange** Support Vertical Limb Guide Nozzles Measuring Nozzles Alarm Pointer Measuring Switches Wire Rope **Pull Chain** Guide Wire Gauge Ropes Board Float Knob Gauge Bracket Support Gauge Board Float Rope Guide Gauge Bracket Support Anchor Anchor

🖉 GND Level

Process Control Measuring Instruments and Sensors Pressure, Temperature, Level & Flow Sensors & Instruments **BMS Products**



Specifications

Range > 7.5 meters with Ø200float 3 meters with Ø200 float installation Ground level tark or underground tark or elevated tark Liquid SG 20.8 Max Temperature 80 °C (PP), 100 °C (ECTFE Ctd S3), 150 °C (S5) Max Tensperature 80 °C (PP), 100 °C (ECTFE Ctd S3), 150 °C (S5) Max Pressure Atmospheric Float S3304/316/316, PL, PCTFE (trd S3), 150 °C (S5) Mox Pressure S3304/316/316, PL, PCTFE (trd S3), 150 °C (S5) Process/Tensioner Connection (S, CS A105, PP, S5304 or S5316 Process/Tensioner Connection %" or 1" or 1-1/2" NB ASME 150# flanges Tensioner Connection %" or 1" or 1-1/2" NB ASME 150# flanges (2 nos.) Not Applicable Process/Tensioner Connection %" or 1" or 1-1/2" NB ASME 150# flanges (2 nos.) Not Applicable Tensioner (2 nos.) > Cadmiumg Itd. steelspring inc/spowder coated or PP enclosure > S5316 spring house in S3316 enclosure > Sissis spring house in S3316 enclosure > Sissis spring house in S3316 enclosure Not Applicable Calibrated Gauge Board > mm (full travel). Not mn (nal' travel) Not applicable Pointer Red powder coated CS or S304 Mom for 15 meters range Pointer Pointer Red powder coated Sto	Construction	Guided	Unguided									
> 15 meters with Ø350 float Installation Ground level tank or underground tank or elevated tank Uiguid SG 20.8 Max Temperature 80 °C (PP). 100 °C (ECTFE Ctd SS). 150 °C (SS) Max Pressure Atmospheric Float SS304/316/316L, PP. ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350 Float/Guide Wire Rope SS304/316/316L, PP. ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350 Float/Solide Wire Rope SS304/316/316L, PP. ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350 Float/Guide Wire Rope SS304/316/316L, PP. ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350 Float SS304 sing housed in SS304 endown Process/Crensioner Connection %" or 1" or 1-1/2" NB ASME 150# flings (2 nos.) Not Applicable Process Connection %" or 1" or 1-1/2" NB ASME 150# flings (2 nos.) Not Applicable Tensioner (2 nos.) > C admiump Itd. steelspring in CSpowder coated or PP enclosure > SS318 spring housed in SS304 endowne S SS318 spring housed in SS304 endowne > SS318 spring housed in SS304 endowne > SS304 pro SS304 Calibrated Gauge Board > 6" wide, white powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half fravel. > Volumetric scale in Litters or KL or BBL on request.	Range											
Installation Ground level tank or underground tank or elevated tank Liquid SG 20.8 Max Temperature 80 °C (PP), 100 °C (ECTFE Ctd SS), 150 °C (SS) Max Pressure Atmospheric Float SS304/316/316L, PP, ECTFE (Hallar) coated SS304/316 x Ø 0 or Ø350 Float/Guide Wire Rope SS304/316/316L, PP, ECTFE (Hallar) coated SS304/316 x Ø 0 or Ø350 Float/Suide Wire Rope SS304/316/316L, PP, ECTFE (Hallar) coated SS304/316 x Ø 0 or Ø350 Process/Tensioner Connection X" or 1" or 1-1/2" NB ASME 150# flange Tensioner Connections X" or 1" or 1-1/2" ASME 150# flange Tensioner Connections X" or 1" or 1-1/2" ASME 150# flange Tensioner Connections X" or 1" or 1-1/2". ASME 150# flange Tensioner Connection X" or 1" or 1-1/2". ASME 150# flange Tensioner (2 nos.) > Cadmium pitd. steelspringinCS powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 100 cm (34 mm height) for full travel. Pointer > 6' wide, white powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 200 cm for half travel. Pointer Not Applicable Pointer reavel > Full for groundlevel, elevated tanks and underground tanks (f et 4c meters) Pointer height = 60 mm for 7.5 meters range and 80	C C											
Liquid SG 20.8 Max Temperature 80 °C (PP), 100 °C (ECTFE Ctd SS), 150 °C (SS) Max Pressure Atmospheric Float SS304/316/316L, PP, ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350 Float/Guide Wire Rope SS304/316/316L, PP, ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350 Float/Guide Wire Rope SS304/316/316L, PP, ECTFE (Hallar) coated SS304/316 x Ø200 or Ø350 Process/Tensioner Connection CS, CS A105, PP, SS304 or SS316 MOC CS, CS A105, PP, SS304 S916 More SS316 Process/Tensioner Connection X" or 1" or 1-1/2" NB ASME 150# flanges (2 nos.) Not Applicable Fensioner Connections X" or 1" or 1-1/2" ASME 150# flanges (2 nos.) Not Applicable Calibrated Gauge Board > 6" wide, white powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half travel. > As above, but numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half travel. Pointer Travel > Foul [Int trave], 1 Cm (Int travel]. > Kol unterrow (Major) Per 200 cm for thalf travel. Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylonrope with PP handlefor highly lyiscous liquids which tend to solidify at ambient tem	Installation											
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Float \$S304/316/316L, PP, ECTFE (Hallar) coated \$S304/316 × Ø200 or Ø350 Float/Guide Wire Rope \$S304/316/316L, PP, ECTFE (Hallar) coated \$S304/316 × Ø200 or Ø350 Float/Guide Wire Rope \$S304/316/316L, PP, ECTFE (Hallar) coated \$S304/316 × Ø200 or Ø350 Process/Tensioner Connection C, C S A 105, PP, \$S304 or \$S316 MOC X" or 1" or 1-1/2" NB ASME 150# flange Process/Connection X" or 1" or 1-1/2" ASME 150# flange (2 nos.) Not Applicable Tensioner Connection X" or 1" or 1-1/2" ASME 150# flange (2 nos.) Not Applicable Calibrated Gauge Board > Cadmium pits dxeelspring in CS powder coated or PP enclosure > S5316 spring housed in S3316 enclosure > S3104 firavel. > S5316 write powder coated Aluminum or S5304 MOC with black graduations and numerical markings in black (minor) per 100 cm (34 mm height) for full travel. > As above, but numerical markings in black (minor) per 200 cm and in red (major) per 200 cm for half fravel. > Volumetric scale in Liters or KL or BBL on request. Pointer Red powder coated CS or S304 Pointer for height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel > Full for groundlevel, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth Pulle Chain Nylor repewithPP handlef for highly viscoscostalinguids which rethed socialify at ambien												
Float/Guide Wire Rope SS304/316/316(J_PTFEctdSS304/316xØ1.6mm (multistrand) PP x Ø3 mm (multistrand) Process/Tensioner Connection CS, CS A105, PP, SS304 or SS316 Process Connection %" or 1" or 1-1/2" ASME 150# flange Tensioner Connections %" or 1" or 1-1/2" ASME 150# flanges (2 nos.) Not Applicable Tensioner (2 nos.) > Cadmiump Itd. steelspring inCS powder coated or PP enclosure > S3304 spring housed in SS304 enclosure S S304 Spring housed in SS316 enclosure > S3316 spring housed in SS316 enclosure > S3316 spring housed in SS316 enclosure Calibrated Gauge Board > 6" wide, white powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 100 cm (34 mm height) for full travel. A sabove, but numerical markings in black (minor) per 200 cm (34 mm height) for full travel. > Kasbove, but numerical markings in black (minor) per 200 cm (34 mm height) for full travel. Pointer Red powder coated CS or SS304 Pointer fravel. Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) Pull Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x Gi or PP or SS304 pule with PTFE bush & SSshaft in powder coated cast Al enclosure (WP) > SS304/316/316/1916/1916/250 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE		-										
Process/Tensioner Connection MOC CS, CS A105, PP, S3304 or S5316 MOC %" or 1" or 1-1/2" NB ASME 150# flange Tensioner Connection %" or 1" or 1-1/2" ASME 150# flange Tensioner (2 nos.) > Cadmiump ltd. steelspring in CS powder coated or PP enclosure > S3304 spring housed in S3304 enclosure Calibrated Gauge Board > Cadmiump ltd. steelspring in CS powder coated Aluminum or S5304 MOC with black graduations and numerical markings in black (minor) per 10cm and in red (major) per 200 cm (34 mm height) for full travel. Calibrated Gauge Board > 6" wide, white powder coated Aluminum or S5304 MOC with black graduations and numerical markings in black (minor) per 10cm and in red (major) per 200 cm for half travel. Pointer Pointer fravel > Volumetric scale in Liters or KL or BBL on request. Pointer Red powder coated CS or S5304 Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel > Full for ground level, elevated tanks and underground tanks (< 4 meters) > Half for underground tanks from 4 to 8 meters depth Pulle Chain W/onrope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" X Gi or PP or S5304 pipe MOC > Two vertical limbs of 285 & 195 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush & SSshaft in powder coated cast Al enclosure (WP) > S3304/316/316.pulley.with PTFE bush & SSshaft in PP enclosure (WP)			strand)									
MOC X" or 1" or 1-1/2" NB ASME 150# flange Process Connection X" or 1" or 1-1/2" NB ASME 150# flanges (2 nos.) Not Applicable Tensioner Connections X" or 1" or 1-1/2" ASME 150# flanges (2 nos.) Not Applicable Tensioner (2 nos.) > Cadmium pltd.steetspring in CS powder coated or PP enclosure Not Applicable SS304 spring housed in SS316 enclosure > SS304 spring housed in SS316 enclosure Not Applicable Calibrated Gauge Board > 6" wide, white powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 100 cm (34 mm height) for full travel.) > As above, but numerical markings in black (minor) per 200 cm (34 mm height) for full travel. Volumetric scale in Liters or KL or BBL on request. > Volumetric scale in Liters or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) Perioter ravel Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Pull Chain Nylonrope with PP handle for highly viscous liquids which tend to solidify at ambient temp X" x Gi or PP or SS304 pipe MOC > Two vertical limbs of 285 k 195 mm Ponter travel > Cadmium plated steel with PTFE bush &Sshaft in powder coated cast Alenclosure (WP) <td< th=""><th></th><th></th><th></th></td<>												
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Tensioner (2 nos.) > Cadmiump Itd.steelspringin CS powder coated or PP enclosure Not Applicable > SS304 spring housed in SS304 enclosure > SS316 spring housed in SS304 enclosure > > SS316 spring housed in SS316 enclosure > SS316 wide, white powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 10 cm and in red (major) per 100 cm (34 mm height) for full travel. > As above, but numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half travel. > Volumetric scale in Liters or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel). 10 mm (half travel) Pointer Pointer Red powder coated CS or SS304 Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel > Full for underground tanks from 4 to 8 meters depth Pulle Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" X GI or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm Polley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush & SS shaft in powder coated enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in WP cast Al powder coated enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in SO4 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS ond enclosure (WP) > SS304/316/316/3161/3161/216 at CTFE coated SS304 pipe (1" NB)	Process Connection	¾" or 1" or 1-1/2" NB ASME 150# flange										
Tensioner (2 nos.) > 55304 spring housed in 55304 enclosure Calibrated Gauge Board > 6" wide, white powder coated Aluminum or \$5304 MOC with black graduations and numerical markings in black (minor) per 10 cm and in red (major) per 100 cm (34 mm height) for full travel. A sabove, but numerical markings in black (minor) per 20c m and in red (major) per 20c m for half travel. > Volumetric scale in Liters or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) Pointer Pointer Red powder coated CS or \$5304 Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp % SG or PP or \$5304 pipe MOC > two vertical limbs of 650 mm Protection Conduit > Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Alenclosure (WP) > Pp pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/316/316L/316L/316L/316L/316L/316L/304/16/3304/16/3016L/316L/316L/316L/316L/316L/316L/316L/3	Tensioner Connections	¾" or 1" or 1-1/2" ASME 150# flanges (2 nos.)	Not Applicable									
Action of the stable spring housed in 33304 enclosure Stable spring housed in 33304 enclosure Calibrated Gauge Board For wide, white powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 100 cm and in red (major) per 200 cm for half travel. A sabove, but numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half travel. Pointer Not with travel. Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel Full for ground level, elevated tanks and underground tanks (<4 meters) Half for underground tanks from 4 to 8 meters depth Pull Chain Nylonrope with PP handlefor highly viscous liquids which tend to solidify at ambient temp %" x Gi or PP or SS304 spie MOC Protection Conduit Cadmium plated steel with PTFE bush &SS shaft in pP enclosure (WP) % S3304 spie WULPY Enclosure (2 nos) Cadmium plated steel with PTFE bush &SS shaft in powder coated enclosure (WP) S3304 spie WULPY Enclosure (2 nos) Weighted::S3304/316/316L plate,25Wx6 Thick (metallictanks) Weighted::S3304/316/316L plate,25Wx6 Thick (metallictanks) Not Applicable Anchor Weided:S3304/316/316L plate,25Wx6 Thick (metallictanks) Not Applicable S3316 Gauge Board Brackets Powder coasted steel Conduit Suport <th></th> <th>Cadmium p ltd. steel spring in CS powder coated or PP enclosure</th> <th>Not Applicable</th>		Cadmium p ltd. steel spring in CS powder coated or PP enclosure	Not Applicable									
Calibrated Gauge Board > 6" wide, white powder coated Aluminum or SS304 MOC with black graduations and numerical markings in black (minor) per 10 cm and in red (major) per 100 cm (34 mm height) for full travel. > As above, but numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half travel. > Volumetric scale in Liters or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) Pointer Pointer Red powder coated CS or SS304 Pointer Inter height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylon rope with PP handle for highly viscous liquids which thend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush & SS shaft in pwder coated cast Al enclosure (WP) > SS304/316/J16L pilet, 25 Wx6 Thick (metallic tanks) > Weighted :SS304/316/316L pilet, 25 Wx6 Thick (metallic tanks) > Weighted :SS304/316/316L pilet, 25 Wx6 Thick (metallic tanks) > Weighted :SS304/316/316L pilet, 25 Wx6 Thick (metallic tanks) > Weighted :SS304/316/316L pilet, 25 Wx6 Thick (metallic tanks) > Weighted :SS304/316/316L pilet, 25 Wx6 Thick (metallic tanks) > Weighted :SS30	Tensioner (2 nos.)											
Calibrated Gauge Board markings in black (minor) per 10 cm and in red (major) per 100 cm (34 mm height) for full travel. > Asabove, but numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half travel. > Volumetric scale in Liters or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) > Pointer Red powder coated CS or SS304 > Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters range > Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth > Pull Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC > Protection Conduit > Cadimum plated steel with PTFE bush & SS shaft in pwder coated cast Al enclosure (WP) Pulley & Pulley Enclosure (2 nos) > P P pulley with PTFE bush & SS shaft in S304 enclosure (WP) > SS304/316/Jalpulley with PTFE bush & SS shaft in S304 enclosure (WP) > SS304/316/316L plate, 25Wx6Thick (metallictanks) > Weided: SS304/316/316J at ECTFE coated SS304 pipe (1" NB) or PP 50 mm OD Note:Lengthofanchor=300(Ø200float) and450mm(Ø350float) Not Applicable Rachor SS316		SS316 spring housed in SS316 enclosure										
Asabove, but numerical markings in black (minor) per 20 cm and in red (major) per 200 cm for half travel. > Volumetric scale in Liters or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) Pointer Red powder coated CS or SS304 Pointer Travel > Full for ground level, elevated tanks and underground tanks (< 4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" X GI or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm > One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) > SS304/316/316/UPTFE bush & SS shaft in powder coated cast Al enclosure (WP) > SS304/316/9116/19TEF bush & SS shaft in SS00-enclosure (WP) > SS304/9116/9116/9116/9116/9116/9116/9116/911												
halftravel. > Volumetric scale in Liters or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) Pointer Red powder coated CS or SS304 Pointer Travel > Full for ground level, elevated tanks and underground tanks (< 4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm > One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in S304 enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/316/316L pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in S304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in S304 enclosure (WP) > Weighted :SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted :SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted :SS304/316/316L or ECTFE coated SS304 pipe (1" NB) or PP 50 mmOD Note:Lengthofanchor=300(Ø200float) and450mm(Ø350flo	Calibrated Gauge Board											
> Volumetric scale in Liters or KL or BBL on request. Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) Pointer Red powder coated CS or SS304 Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylon ope with PP handle for highly viscous liquids which tend to solidify at ambient temp W" x GI or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm Pone horizontal limb of 650 mm > One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) > SS304/316/Jafbulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/Jafbpulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS304/Jafbpulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS304/Jafbpulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > Weighted: SS304/316/3161 plate, 2SWx6 Thick (metallic tanks) Not Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS <td< th=""><th></th><td colspan="10"></td></td<>												
Resolution (Gauge Board) 5 mm (full travel), 10 mm (half travel) Pointer Red powder coated CS or SS304 Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel > Full for ground level, elevated tanks and underground tanks (< 4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylonrope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm > One horizontal limb of 650 mm > Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in PV cast Al. powder coated enclosure (WP) > SS304/316/316Lplate, 25 Wx 6 Thick (metallic tanks) > Welded: SS304/316/316Lplate, 25 Wx 6 Thick (metallic tanks) > Welded: SS304/316/316Lplate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316Lplate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316Lplate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316Lplate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316Lplate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316Lplate, 25 Wx 6 Thick (metallic tanks) > We		halftravel.										
Pointer Red powder coated CS or SS304 Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel > Full for ground level, elevated tanks and underground tanks (< 4 meters) Pull Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm Protection Conduit > One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) > SS304/316pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/316pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316pulley with PTFE bush & SS shaft in SS316 enclosure (WP) > SS316pulley with PTFE bush & SS shaft in SS316 enclosure (WP) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) Not Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum												
Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters range Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm > One horizontal limb of 650 mm > Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) > Weight												
Pointer Travel > Full for ground level, elevated tanks and underground tanks (<4 meters) > Half for underground tanks from 4 to 8 meters depth Pull Chain Nylonrope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC Protection Conduit > Two vertical limbs of 285 & 195 mm > One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush &SS shaft in powder coated cast Alenclosure (WP) > SS304/316 pulley with PTFE bush &SS shaft in PP enclosure (WP) > SS304 pulley with PTFE bush &SS shaft in SS304 enclosure (WP) > SS304 pulley with PTFE bush &SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush &SS304 pipe (1" NB) or PP 50 mm OD Note:Lengthofanchor=300(Ø200float)and450mm(Ø350float) Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum	Pointer											
Puil Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC Protection Conduit > Two vertical limbs of 285 & 195 mm > One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) Anchor > Welded:SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Wote coated steel Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50mmWC-Cast aluminum/SS316/PVC coated cast aluminum		Pointer height = 60 mm for 7.5 meters range and 80 mm for 15 meters ra	ange									
Pull Chain Nylon rope with PP handle for highly viscous liquids which tend to solidify at ambient temp %" x GI or PP or SS304 pipe MOC Two vertical limbs of 285 & 195 mm Protection Conduit One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) Cadmium plated steel with PTFE bush &SS shaft in powder coated cast Al enclosure (WP) P pulley & S3304/316 pulley with PTFE bush &SS shaft in PP enclosure (WP) S3304/316 pulley with PTFE bush &SS shaft in WP cast Al. powder coated enclosure (WP) S3304/316 pulley with PTFE bush &SS shaft in S3304 enclosure (WP) S3304/316 pulley with PTFE bush &SS shaft in S3304 enclosure (WP) Anchor Welded:SS304/316/316L plate,25 Wx6 Thick (metallictanks) Not Applicable Rope Fasteners SS316 Not Gauge Board Brackets Powder coated steel Not Conduit Support MS MS Seal Pot 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum	Pointer Travel	Full for ground level, elevated tanks and underground tanks (< 4 m	eters)									
%" x Gl or PP or SS304 pipe MOC > Two vertical limbs of 285 & 195 mm > One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) > P p pulley with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in WP Cast Al. powder coated enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in WP Cast Al. powder coated enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304 > SS316 Gauge		Half for underground tanks from 4 to 8 meters depth										
Protection Conduit > Two vertical limbs of 285 & 195 mm > One horizontal limb of 650 mm > Cadmium plated steel with PTFE bush &SS shaft in powder coated cast Al enclosure (WP) > Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush &SS shaft in PP enclosure (WP) > SS304/316 pulley with PTFE bush &SS shaft in WP Cast Al. powder coated enclosure (WP) > SS304/316 pulley with PTFE bush &SS shaft in WP Cast Al. powder coated enclosure (WP) > SS316 pulley with PTFE bush &SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush &SS shaft in SS316 enclosure (WP) Anchor > Welded:SS304/316/316L plate, 25 W x6 Thick (metallic tanks) Not Applicable Rope Fasteners SS316 Not Gauge Board Brackets Powder coated steel Not Conduit Support MS MS Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum	Pull Chain		pienttemp									
> One horizontal limb of 650 mm Pulley & Pulley Enclosure (2 nos) > Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) > PP pulley with PTFE bush & SS shaft in PP enclosure (WP) > > SS304/316 pulley with PTFE bush & SS shaft in WP cast Al. powder coated enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS304 pipe (1" NB) or PP 50 mm OD Note: Length of anchor = 300 (Ø200 float) and 450 mm (Ø350 float) Not Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel MS Conduit Support MS Seal Pot > 50 mmWC - Cast aluminum/SS316/ PVC coated cast aluminum		¾" x GI or PP or SS304 pipe MOC										
Pulley & Pulley Enclosure (2 nos) Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP) PP pulley with PTFE bush & SS shaft in PP enclosure (WP) SS304/316 pulley with PTFE bush & SS shaft in WP Cast Al. powder coated enclosure (WP) SS304pulley with PTFE bush & SS shaft in SS304 enclosure (WP) SS316 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) SS316 pulley with PTFE bush & SS shaft in SS316 enclosure (WP) Weighted : SS304/316/316L plate, 25 Wx 6 Thick (metallic tanks) Weighted : SS304/316/316L or ECTFE coated SS304 pipe (1" NB) or PP 50 mm OD Note: Lengthofanchor=300(Ø200float) and 450mm(Ø350float) Mot Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum	Protection Conduit	Two vertical limbs of 285 & 195 mm										
Pulley & Pulley Enclosure (2 nos) > PP pulley with PTFE bush & SS shaft in PP enclosure (WP) > SS304/316 pulley with PTFE bush & SS shaft in WP Cast AI. powder coated enclosure (WP) > SS304 pulley with PTFE bush & SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush & SS shaft in SS316 enclosure (WP) > Welded: SS304/316/316Lplate, 25 Wx6 Thick (metallic tanks) > Weighted : SS304/316/316Lorie CCTFE coated SS304 pipe (1" NB) or PP 50 mm OD Note: Lengthofanchor=300(Ø200 float) and 450 mm (Ø350 float) Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum		One horizontal limb of 650 mm										
Anchor > SS304/316 pulley with PTFE bush &SS shaft in WP Cast AI. powder coated enclosure (WP) > SS304 pulley with PTFE bush &SS shaft in SS304 enclosure (WP) > SS304 pulley with PTFE bush &SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush &SS shaft in SS304 enclosure (WP) > SS316 pulley with PTFE bush &SS shaft in SS304 enclosure (WP) > Welded: SS304/316/316L plate, 25 W x 6 Thick (metallic tanks) > Weighted : SS304/316/316L plate, 25 W x 6 Thick (metallic tanks) > Weighted : SS304/316/316L or ECTFE coated SS304 pipe (1" NB) or PP 50 mm OD Note: Lengthof anchor = 300(Ø200 float) and 450mm (Ø350 float) Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum		Cadmium plated steel with PTFE bush & SS shaft in powder coated cast Al enclosure (WP)										
> SS304pulleywith PTFE bush &SSshaft in SS304 enclosure (WP) > SS316pulleywith PTFE bush &SSshaft in SS316 enclosure (WP) Anchor > Welded: SS304/316/316L plate, 25 W x 6 Thick (metallic tanks) > Weighted : SS304/316/316L or ECTFE coated SS304 pipe (1" NB) or PP 50 mm OD Note:Lengthofanchor=300(Ø200float) and 450mm(Ø350float) Not Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum	Pulley & Pulley Enclosure (2 nos)	PP pulley with PTFE bush & SS shaft in PP enclosure (WP)										
SS316pulleywithPTFEbush&SSshaftinSS316enclosure(WP) Anchor > Welded:SS304/316/316Lplate,25Wx6Thick(metallictanks) > Weighted : SS304/316/316L or ECTFE coated SS304 pipe (1" NB) or PP 50 mm OD Note:Lengthofanchor=300(Ø200float)and450mm(Ø350float) Not Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum		SS304/316 pulley with PTFE bush & SS shaft in WP Cast Al. powder coated enclosure (WP)										
Anchor > Welded:SS304/316/316Lplate,25Wx6Thick(metallictanks) Not > Weighted:SS304/316/316L or ECTFE coated SS304 pipe (1" NB) or PP 50 mm OD Not Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum		SS304pulleywithPTFEbush&SSshaftinSS304enclosure(WP)										
Anchor > Weighted : SS304/316/316L or ECTFE coated SS304 pipe (1" NB) or PP 50 mm OD Note:Lengthofanchor=300(Ø200float)and450mm(Ø350float) Not Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum		SS316pulleywithPTFEbush&SSshaftinSS316enclosure(WP)										
Anchor > Weighted : SS304/316/316L or ECTFE coated SS304 pipe (1" NB) or PP 50 mm OD Note:Lengthofanchor=300(Ø200float)and450mm(Ø350float) Not Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum		Welded: SS304/316/316L plate, 25 Wx6 Thick (metallic tanks)										
Note:Lengthofanchor=300(Ø200float)and450mm(Ø350float) Applicable Rope Fasteners SS316 Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC-Cast aluminum/SS316/PVC coated cast aluminum	Anchor		50 mm0D									
Gauge Board Brackets Powder coated steel Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum			Applicable									
Conduit Support MS Gauge Bracket Support MS Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum	Rope Fasteners	SS316										
Gauge Bracket Support MS Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum	Gauge Board Brackets	Powder coated steel										
Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum	Conduit Support	MS										
Seal Pot > 50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum	Gauge Bracket Support	MS										
	Seal Pot	50 mmWC - Cast aluminum/SS316/PVC coated cast aluminum										
ZUUTIIIIIVVL - US 01 5551b		 > 200 mmWC - CS or SS316 										



Accessories	A	Counter flanges (CS), nuts, bolts (CS) & CAF gaskets
	\succ	Measuring/guide nozzles with flange (CS), nuts, bolts (CS) & CAF gaskets

Model DE codification

VIPL-	1 -	Α-	2 -	н	-	1-	1-	M -	2 -	R -	S -	1 -	1 -	Α-	1
1. Construction x Pointer Travel															
Guided x Full Travel	1														
Guided x Half Travel	2														
Unguided x Full Travel	3														
2. Float MOC	I														
SS304		Α													
SS316		В	1												
SS316L		С	1												
РР		D													
ECTFE coated SS304		Ε	1												
ECTFE coated SS316		F	1												
Others		G													
3. Float Size															
Ø 200 mm			1												
Ø 350 mm			2	1											
4. Seal Pot															
Without				н	-										
50 mmWC x Aluminum				1	-										
50 mmWC x SS316				2	-										
50 mmWC x PVC coated Aluminum				3	-										
200 mmWC x CS				4	-										
200 mmWC x SS316				5											
Others				0	-										
				Ŭ	-										
						1									
6. Installation						1									
Ground Level Tank						Т									
Under Ground Tank (Sump)						J									
Elevated Tank						К									
7. Calibrated Gauge Board x Pointer MO	С														
Aluminum Gauge Board x CS Pointer							1								
Aluminum Gauge Board x CS Pointer with Pull	Chair	ı					2								
SS304 Gauge Board x CS Pointer							3	-							
SS304 Gauge Board x CS Pointer with Pull Chair	1						4	-							
SS304 Gauge Board x SS304 Pointer							5								
SS304 Gauge Board x SS304 Pointer with Pull C	hain						6								
8. Process/ Tensioner Connection MOC							-								
CS								L							
CS A105								M							
SS304								N							
SS316								0							
PP								P							
Others								Q							
9. Process Connection								×							
%" NB ASME 150# Flange									1						
14 IND ASIVIE ISOH FIGIISE									1						

Process Control Measuring Instruments and Sensors Pressure, Temperature, Level & Flow Sensors & Instruments BMS Products



1" NB ASME 150# Flange	2			
1-1/2" NB ASME 150# Flange	3			
Others	0			

10. Tensioner Connections (2 nos.)						
Without (Unguided)	R					
¾″ NB ASME 150# Flange	1					
1" NB ASME 150# Flange	2					
1-1/2" NB ASME 150# Flange	3					
Others	0					
11. Tensioner (Spring + Enclosure)	•					
Without (Unguided Construction)		S				
Cadmium plated Steel Spring x CS powder coated Enclosure		1				
Cadmium plated Steel Spring x CS powder coated Enclosure		2				
SS304 Spring x SS304 Enclosure		3				
SS316 Spring x SS316 Enclosure		4				
Others		4 0				
12. Protection Conduit		0				
GI x ¾" NB Protection Conduit			1	-		
SS304 x ¾" NB Protection Conduit			2			
GI x ¾" NB Protection Conduit with Extension (Elevated or Underground Tanks)			2			
SS304 x ¾" NB Protection Conduit with Extension (Elevated or Underground Tanks)			3 4			
PP x ¾" NB Protection Conduit with Extension (Elevated of Onderground Tanks)			-			
Others			5	-		
13. Pulley x Pulley Enclosure			0			
Cadmium plated steel Pulley x Cast Al powder coated Enclosure				1		
SS304 Pulley x Cast Al powder coated Enclosure				2		
SS304 Pulley x SS304 Enclosure				3		
SS316 Pulley x Cast Al powder coated Enclosure				4		
SS316 Pulley x SS316 Enclosure				5		
PP Pulley x PP Enclosure				6		
14. Anchor				0		
Without (Unguided)					Α	
SS304 x Welded					B	•
SS304 x Weighted					C	1
SS316 x Welghted					D	1
SS316 x Weighted					E	1
SS316L x Welghted					F	
SS316L x Weighted					G	1
PP x Weighted					H	1
ECTFE coated SS304 x weighted						
15. Accessories					I	
Without						1
Counter Flanges (CS) + Nuts, Bolts (CS) + CAF Gaskets						J
Measuring/Guide Nozzles with Flange (CS) + Nuts, Bolts (CS) + CAF Gaskets						K
Others						L
Unici 3						- E